

20030521.qrp v02_n927.qrl.20030521

Date: Wed, 21 May 2003 19:03:08 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2927

QRP-L Digest 2927

Topics covered in this issue include:

- 1) [151034] Re: Better start saving
by "Lee Mairs" <lmairs@direcway.com>
- 2) [151035] Iowa QRP Club CW Net
by mark.milburn@juno.com
- 3) [151036] Argosy mods and serial nrs. question
by <tlogan7@cox.net>
- 4) [151037] Re: Tuner for DSW-II (portable in front yard)
by Ken Hopper N9VV <n9vv@wideopenwest.com>
- 5) [151038] OT: XY Plotting program
by "Royce Simmons" <w2rnb@prodigy.net>
- 6) [151039] Economical 10W solar panels
by "sslyon" <sslyon@megalink.net>
- 7) [151040] double posts
by ik7565@erols.com
- 8) [151041] OT: Speeding Up Message Loading
by "Pat Whelton" <pwhelton@earthlink.net>
- 9) [151042] Homeland Security Threat Raised to Orange
by Rick McKee <kc8aon@juno.com>
- 10) [151043] Re: double posts
by Jim Eshleman <jce0@Lehigh.EDU>
- 11) [151044] Re: Economical 10W solar panels
by "Lee Mairs" <lmairs@direcway.com>
- 12) [151045] Re: paddle starting question
by Richard Clem <clem.law@usa.net>
- 13) [151046] Economical 10W solar panels
by "sslyon" <sslyon@megalink.net>
- 14) [151047] Re: OT: XY Plotting program
by psschwarz@kellnet.com
- 15) [151048] Re: Tuner for DSW-II (portable in front yard)
by "George, W5YR" <w5yr@att.net>
- 16) [151049] 4:1 Balun winding info
by Rick McKee <kc8aon@juno.com>
- 17) [151050] Re: Economical 10W solar panels
by Larry Cahoon <lejek@erols.com>
- 18) [151051] Re: Economical 10W solar panels
by Steve.Lawrence@ITWFEG.COM
- 19) [151052] Re: [Re: Economical 10W solar panels]

- by Michael Goins <mgoins@usa.net>
- 20) [151053] Re: 4:1 Balun winding info
by Bill Coleman <aa4lr@arrl.net>
- 21) [151054] Re: Economical 10W solar panels
by "Charles" <cvest@hit.net>
- 22) [151055] NVIS Receiving, reloaded
by Kenneth Hoglund <hoglund@wfu.edu>
- 23) [151056] Solar Gell Cell Charger
by mjfitz@uswest.net
- 24) [151057] NE602 Balanced Mod Problem
by Bill Meara <n2cqr@clix.pt>
- 25) [151058] Re: 4:1 Balun winding info
by "Karl F. Larsen" <k5di@zianet.com>
- 26) [151059] RE: Homeland Security Threat Raised to Orange
by "AI2Q" <ai2q@adelphia.net>
- 27) [151060] Re: Mail Call and Small Tubes
by Bruce Muscolino <w6toy@erols.com>
- 28) [151061] FT: 140W 80-10M Amp
by "Alan Fryer" <N3BJ@hotmail.com>
- 29) [151062] Re: Homeland Security Threat Raised to Orange
by Alex <kr1st@amsat.org>
- 30) [151063] Re: Homeland Security Threat Raised to Orange
by Jim Eshleman <jce0@Lehigh.EDU>
- 31) [151064] Re: 4:1 Balun winding info
by Jerry Lofstead <w3cde@bellsouth.net>
- 32) [151065] RE: Homebrew generator
by "COLIN WHITMORE" <cncwhitmore@msn.com>
- 33) [151066] Solar Charging and K2?
by Gary Slagel <gdslagel@yahoo.com>
- 34) [151067] Solar Gell Cell Charger
by Mark Gilger <mgilger@brightdsl.net>
- 35) [151068] UPS 450VA @ \$40 with \$30 rebate = net \$10 at Staples
by "Ron McConnell" <rcmcc@earthlink.net>
- 36) [151069] Re: NE602 Balanced Mod Problem
by Steven Weber <kd1jv@moose.ncia.net>
- 37) [151070] CW key FS
by "Ken Simpson, W8EK" <W8EK@fdt.net>
- 38) [151071] Re: Tuner for DSW-II
by "Lee Mairs" <lmairs@direcway.com>
- 39) [151072] Antenna category?
by Garie Halstead <khyberpass65@yahoo.com>
- 40) [151073] Re: Several Antenna Questions
by Caitlyn Martin <ku4qd@earthlink.net>
- 41) [151074] RE: Several Antenna Questions
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 42) [151075] Re: Antenna category?
by George Fremin III <geoiii@kkn.net>
- 43) [151076] Re: Antenna category?

by "Noyce, Bill" <william.noyce@hp.com>
44) [151077] Re: Antenna category?
by "Tim, N9PUZ" <n9puz@arrl.net>
45) [151078] RE: Several Antenna Questions
by "Boulineau, Lee" <lee.boulineau@attws.com>
46) [151079] Speaking of Antennas >>>
by na5n@zianet.com
47) [151080] Dayton Hamfest Prizes
by "w8diz" <w8diz@fpqrp.com>
48) [151081] Re: Several Antenna Questions
by "Dave Sjolín" <sjolin@swbell.net>
49) [151082] RE: Antenna category?
by "Bob Hightower" <nk7m@extremezone.com>
50) [151083] Re: Antenna category?
by Garie Halstead <khyberpass65@yahoo.com>
51) [151084] Re: Dayton Hamfest Prizes
by KD5NWA <KD5NWA@cbayona.com>
52) [151085] Miniboosts Amp Kits are on the way
by "Doug Hendricks" <ki6ds@dph.dpol.net>
53) [151086] FS ANC 4
by Vince Santis <vsantis@earthlink.net>
54) [151087] Winter 2002 and Spring 2003 QRPP are in the mail
by "Doug Hendricks" <ki6ds@dph.dpol.net>
55) [151088] Re: SMD soldering nirvana????
by "Tom" <kf4yyd@adelphia.net>
56) [151089] Re: Dayton Hamfest Prizes
by "John J. McDonough" <wb8rcr@arrl.net>
57) [151090] Re: Dayton Hamfest Prizes
by David Hinerman <WD8CIV@worldnet.att.net>
58) [151091] Re: SMD soldering nirvana????
by David Hinerman <WD8CIV@worldnet.att.net>
59) [151092] Re: Dayton Hamfest Prizes
by psschwarz@kellnet.com
60) [151093] Icom 703 first impressions
by tjmc <tjmc@erols.com>

Date: Tue, 20 May 2003 16:04:22 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <steve.lawrence@itwfeg.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151034] Re: Better start saving
Message-ID: <00bb01c31f0b\$0e822f60\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Did you nay-sayers buy your wives diamonds?

There is an intrinsic beauty in owning the world's best of anything - be it a fine gem that graces SWMBO's finger or an IC 781 sitting next to a 2N2-40!
73 de Lee, KM4YY

----- Original Message -----

From: <steve.lawrence@itwfeg.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, May 20, 2003 11:33 AM

Subject: Re: Better start saving

> Where's the adventure in a QSO? The sense of accomplishment? The
> excitement? Is parachuting to the summit of Everest the same as climbing
> it?

>

> I submit not...

>

> Further, how we expand the hobby with a radio priced like a small car?

>

> The ultimate in pelf!

>

> In sharp contrast, we're here... driven by a love and interest in doing
> more with less, often on home brew/made equipment. This is the spirit of
> QRP.

>

> Steve

> aa8af

>

>

>

>

>

> Caitlyn Martin <ku4qd@earthlink.net>

> Sent by: owner-qrp-1@Lehigh.EDU

> 05/20/2003 10:57 AM

> Please respond to ku4qd

>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> cc:

> Subject: Re: Better start saving

>

>

> On Tue, 20 May 2003 07:16:12 -0400

> Lee Jarvis <ljarvis@tampabay.rr.com> wrote:

>
> > \$8,0000.00 (plus tax of course)! I'd be young and single again in a
> > big hurry. We'll... at least single.
>
> ...
>
> Tell me, will the QSOs be any better with that rig?
>
> 72/73,
> Caity
> KU4QD
>
>
>
>
>
>
>

Date: Tue, 20 May 2003 15:47:55 -0500
From: mark.milburn@juno.com
To: qrp-l@lehigh.edu
Subject: [151035] Iowa QRP Club CW Net
Message-ID: <20030520.154828.-637639.0.MARK.MILBURN@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The net will be held again this Wednesday night at 8 PM Iowa time (CDT)
on or around 7.112. Please join us if you can.
72 Mark KQ0I
Des Moines, Iowa

Date: Tue, 20 May 2003 16:54:17 -0400
From: <tlogan7@cox.net>
To: qrp-l@Lehigh.EDU
Subject: [151036] Argosy mods and serial nrs. question
Message-ID: <20030520205423.00LR11297.fed1mtao02.cox.net@smtp.west.cox.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi -
There is a great article on the Unofficial TenTec pages (<http://www.qsl.net/>

tentec/) about some excellent
mods to the original Argosy. It is not clear if any of these mods were
incorporated by Ten Tec into the Argosy's beyond a certain serial number (not
talking about Argosy 525D changes - just the analog 525). If anyone knows if the
factory made some changes
after a particular serial number, could you let me know what the serial number is
or any related history here? Thank you. 73/Tim

Date: Tue, 20 May 2003 15:57:28 -0500
From: Ken Hopper N9VV <n9vv@wideopenwest.com>
To: qrp-l@Lehigh.EDU
Subject: [151037] Re: Tuner for DSW-II (portable in front yard)
Message-ID: <3ECA96B8.9030303@wideopenwest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

On Saturday and Sunday I was "portable" out in the front lawn with a
long wire up in a neighbors tree :-) I had a ball with the DSW-II (see
a dozen Qs in the online log) and the beautiful ZM-2 from Emtech. It
worked perfectly with and without a counterpoise attached to it. I tried
making a simulated "dipole" out of two 25ft wires and that also worked
great.

Tuning with the ZM-2 is so easy (just extinguish the little LED) but it
was somewhat difficult to see the LED under bright sunlight. That is
where a conventional SWR meter might be useful. I didn't try one of the
MFJ low power tuners, but I suspect it would have had a tough time
matching my attempt at a wire ANT.

I used a rechargeable 12VDC power pack from J&S
<URL:<http://12voltproducts.com/Roadpro/RPSL-600.html>> for \$27. I also
used an external keyer because my brain can't get synched up with the
DSW-II internal keyer (used a CodeBoy from Radio Adventures). The whole
setup was on a scrap piece of plywood sitting on my lap in a lawn chair
:-) The neighbor kids tore up my counterpoise twice while chasing their
frisbees, but overall it worked out great. You can't beat the
sensitivity and stability of the DSW-II.

This was my first portable/field operation in m-a-n-y years and I
really enjoyed it.

GL to you.

de ken n9vv

<http://www.n9vv.com/dsw2-20project.html>

Date: Tue, 20 May 2003 17:11:14 -0400
From: "Royce Simmons" <w2rnb@prodigy.net>
To: <qrp-1@Lehigh.EDU>
Subject: [151038] OT: XY Plotting program
Message-ID: <00ae01c31f14\$59a505e0\$e6294b43@roycesim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

Do you know of a XY Plotting program? I can't get excel to let me define the independent variable for the X axis nor can I find a way to put labels on the axis.

Thanks,

Royce

Date: Tue, 20 May 2003 17:19:11 -0400
From: "sslyon" <sslyon@megalink.net>
To: <QRPSolarPower@yahoogroups.com>, "qrp list" <qrp-1@lehigh.edu>
Subject: [151039] Economical 10W solar panels
Message-ID: <001201c31f15\$7528faa0\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just peeked at CTSolar and found a new, 'economy' version of 10W panels in a folding Al case w/handles.
< <http://www.ctsolar.com/FoldingSolarPanel.htm> >
I may just have to spring for this one at \$89.99 plus shipping -about the best \$/Watt for a mounted unit I've seen so far. Will see if it's possible to stop by for a visit.

73
aa1my

Seabury & Sharon Lyon

99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: "Roger Dallimore" <mw0idx@etarcadia.freemove.co.uk>

To: <QRPSolarPower@yahoo.com>

Sent: Tuesday, May 20, 2003 3:10 PM

Subject: Re: [QRP Solar Power] Solar Panels

> Hi Gregg

>

> I've just bought a 10w backpacking folding panel from CT solar and find it
> works fine. I was trying to decide between it and the Uni-solar range, the
> latter being slightly more efficient.

>

> I decided to go with the folding panels because it packed smaller and looked
> more robust. Powers my K2 fine.

>

> Ian from CT solar also uses one for /P with his K2. I received prompt
> replies to my many email questions and a quick delivery.

>

> No connection with the company just a satisfied customer.

>

> With the K1, perhaps the 5 watt Unisolar panel would suffice.

>

> Regards

>

> Roger MW0IDX

>

>

>

> > I'm new to the group and have been reading all the archive messages.
> > The information has been most helpful. I'm trying to put together a
> > portable solar system for use with my soon-to-be-completed K1. I
> > also have a SW20+ and an 817. Using the links in some of the past
> > messages, I found a line of portable panels at:

> > <http://www.ctsolar.com/ExpeditionFoldingPanels.htm>

> >

> > These are lightweight folding panels from 10W to 30W. I am interested
> > in the 10W setup (lists for \$129.00). I was wondering if anyone on
> > the list has any experience with these panels or the company;
> > Connecticut Solar. Any feedback or advice on alternative portable
> > panels would be greatly appreciated.

> >

> > Thanks in advance.

> >
> > Gregg; WOMPR
> > Boulder CO
> >
> >
> >
> >
> > To unsubscribe from this group, send an email to:
> > QRPSolarPower-unsubscribe@yahoogroups.com
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> To unsubscribe from this group, send an email to:
> QRPSolarPower-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to <http://docs.yahoo.com/info/terms/>
>
>

Date: Tue, 20 May 2003 17:49:22 -0400
From: ik7565@erols.com
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [151040] double posts
Message-ID: <3ECA2E2.3579E4C9@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone else getting double posts off this list? It's the only one of many lists I subscribe to that is double posting.

73 de Ian

N8IK

Date: Tue, 20 May 2003 17:49:34 -0500
From: "Pat Whelton" <pwhelton@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151041] OT: Speeding Up Message Loading
Message-ID: <01f901c31f22\$15ee6540\$8901a8c0@Earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Several months ago someone on QRP-L gave me instructions on how to make Outlook Express load newsgroups faster. I recently reloaded the operating system (Win98) and lost the note. In the meantime I upgraded from a dialup connection to highspeed cable (Earthlink). Believe it or not my newsgroups loaded faster with the dialup account than with the cable. Anyway, I'm trying to reset my options so the mail will load faster. Any help will be appreciated.

By-the-way, I've tried "NEWSTEST2.EARTHLINK.NET" as a news server and it's slow as molasses as well.

Thanks.
Pat - KZ5J

Date: Tue, 20 May 2003 18:43:28 -0400
From: Rick McKee <kc8aon@juno.com>
To: austin789@earthlink.net, jbester5@bright.net, kz8j@juno.com,
 anuel4765@adelphia.net, rnume22@aol.com, Wobble198@aol.com,
Subject: [151042] Homeland Security Threat Raised to Orange
Message-ID: <20030520.193135.9190.2.kc8aon@juno.com>

The Emergency Email & Wireless Network
<http://www.emergencyemail.org/>
for signup

----- End forwarded message -----

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 20 May 2003 20:03:45 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: ik7565@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151043] Re: double posts
Message-ID: <3ECAC261.7090209@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

> Anyone else getting double posts off this list? It's the only one of
> many lists I subscribe to that is double posting.
>
> 73 de Ian
> N8IK

If you can forward me a pair of the dups, with **all** headers intact,
I can attempt to track down the problem.

73
Jim N3VXI

Date: Tue, 20 May 2003 20:32:39 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <sslyon@megalink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151044] Re: Economical 10W solar panels
Message-ID: <01a601c31f30\$81ca35b0\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Whoa! Nine dollars per watt is not economical. Get a large panel that will
really do something. My Kyocera 120 watt panels are less than \$4.75/watt!

Think about it. A ten watt panel at 13.6 VDC will deliver less than 750 ma even if it is perfectly efficient (which they are not). Figure about only 4 hours charging time in the one call area for a perfectly aligned panel, and you are putting back less than 3 amp hours per day - if it is nice and sunny.

I have one of those flexible panels sitting on deck in a Boston Whaler. It will keep up with the bilge pump, but it will never charge a tired battery.
73 de Lee
km4yy

----- Original Message -----

From: "sslyon" <sslyon@megalink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, May 20, 2003 5:19 PM

Subject: Economical 10W solar panels

> Just peeked at CTSolar and found a new, 'economy' version of 10W panels in a
> folding Al case w/handles.
> < <http://www.ctsolar.com/FoldingSolarPanel.htm> >
> I may just have to spring for this one at \$89.99 plus shipping -about the best
> \$/Watt for a mounted unit I've seen so far. Will see if it's possible to stop by
> for a visit.
> 73
> aa1my
>
> Seabury & Sharon Lyon
> 99 Sparrowhawk Mtn Rd
> Bethel ME, 04217 U.S.A.
> 207-836-2576
>
> Virus Protection by Norton and ZoneAlarm
> ----- Original Message -----
> From: "Roger Dallimore" <mw0idx@etarcadia.freemove.co.uk>
> To: <QRPSolarPower@yahoo.com>
> Sent: Tuesday, May 20, 2003 3:10 PM
> Subject: Re: [QRP Solar Power] Solar Panels
>
>
> > Hi Gregg
> >
> > I've just bought a 10w backpacking folding panel from CT solar and find it
> > works fine. I was trying to decide between it and the Uni-solar range,

the
> > latter being slightly more efficient.
> >
> > I decided to go with the folding panels because it packed smaller and
looked
> > more robust. Powers my K2 fine.
> >
> > Ian from CT solar also uses one for /P with his K2. I received prompt
> > replies to my many email questions and a quick delivery.
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> > No connection with the company just a satisfied customer.
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> > With the K1, perhaps the 5 watt Unisolar panel would suffice.
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> > Regards
> >
> > Roger MW0IDX
> >
> >
> >
> > > I'm new to the group and have been reading all the archive messages.
> > > The information has been most helpful. I'm trying to put together a
> > > portable solar system for use with my soon-to-be-completed K1. I
> > > also have a SW20+ and an 817. Using the links in some of the past
> > > messages, I found a line of portable panels at:
> > > <http://www.ctsolar.com/ExpeditionFoldingPanels.htm>
> > >
> > > These are lightweight folding panels from 10W to 30W. I am interested
> > > in the 10W setup (lists for \$129.00). I was wondering if anyone on
> > > the list has any experience with these panels or the company;
> > > Connecticut Solar. Any feedback or advice on alternative portable
> > > panels would be greatly appreciated.
> > >
> > > Thanks in advance.
> > >
> > > Gregg; W0MPR
> > > Boulder CO
> > >
> > >
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> > >
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> >
> >
> >
> > Your use of Yahoo! Groups is subject to
<http://docs.yahoo.com/info/terms/>
> >
> >
>

Date: Tue, 20 May 2003 20:03:38 -0500
From: Richard Clem <clem.law@usa.net>
To: <kb9zuv@arrl.net>
Cc: <qrp-l@lehigh.edu>
Subject: [151045] Re: paddle starting question
Message-ID: <943HeuBDM0832S01.1053479018@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Since you posted the question on QRP-L, you probably anticipated a minima=
list
response....

Even though I work mostly CW, I've never quite gotten around to getting a=

keyer until getting my FT-817, which has one built in. I couldn't see
spending \$100 on two switches, so I just glued two microswitches together=
and
put a piece of velcro on the bottom. I have them aligned so that the one=
on
the left (DIT) has the button at the bottom, and the one on the right (DA=
H)

has it on top. =

On my desk, I have a matching piece of velcro. For mobile use, I have a velcro strap that goes around my leg.

It's the only set of paddles I know, but it seems to work just fine. I can use it comfortably to about 22 WPM, which is about as fast as I normally want to go for normal QSO's.

Your mileage may vary, but my total cost was about \$3, so it might be worth a try!

73,
Rick W0IS

Date: Tue, 20 May 2003 00:02:48 -0500
From: Gary Lee <kb9zuv@arrl.net>
To: qrp-l@lehigh.edu
Subject: [150984] paddle starting question
Message-ID: <5.2.0.9.2.20030519235936.00a67290@pop.ameritech.yahoo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Guess its time for me to learn to use paddles. Been using a straight key since my first license in 1977. Need a suggestion for a good starter set of paddles, preferably not real expensive.

Priced several at dayton this week and it looks like most go for around \$100.00.

Anything out there cheaper but good enough to learn on and use on the air?

Thanks for the help. I'll also need a cheap keyer for practice.

Date: Tue, 20 May 2003 21:36:50 -0400
From: "sslyon" <sslyon@megalink.net>
To: <lmairs@direcway.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151046] Economical 10W solar panels
Message-ID: <003501c31f39\$73f77520\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmmmm... I should have been more specific. What I'm looking for is to maintain a 2.2Ah batt on QRP field operations. The newest QRP rig I have is super small, super efficient, and my Makita 12V batteries will do just fine. Sized specifically for this application, I'm looking for the best bang/buck -and thought that this one looked pretty good. Am I naive?

73

AA1MY

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: "Lee Mairs" <lmairs@direcway.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 8:32 PM
Subject: Re: Economical 10W solar panels

> Whoa! Nine dollars per watt is not economical. Get a large panel that will
> really do something. My Kyocera 120 watt panels are less than \$4.75/watt!
>
> Think about it. A ten watt panel at 13.6 VDC will deliver less than 750 ma
> even if it is perfectly efficient (which they are not). Figure about only 4
> hours charging time in the one call area for a perfectly aligned panel, and
> you are putting back less than 3 amp hours per day - if it is nice and
> sunny.
>
> I have one of those flexible panels sitting on deck in a Boston Whaler. It
> will keep up with the bilge pump, but it will never charge a tired battery.
> 73 de Lee
> km4yy
>

> ----- Original Message -----
> From: "sslyon" <sslyon@megalink.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Tuesday, May 20, 2003 5:19 PM
> Subject: Economical 10W solar panels
>
>
> > Just peeked at CTSolar and found a new, 'economy' version of 10W panels
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> > folding Al case w/handles.
> > < <http://www.ctsolar.com/FoldingSolarPanel.htm> >
> > I may just have to spring for this one at \$89.99 plus shipping -about the
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> > \$/Watt for a mounted unit I've seen so far. Will see if it's possible to
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> > for a visit.
> > 73
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> >
> > Seabury & Sharon Lyon
> > 99 Sparrowhawk Mtn Rd
> > Bethel ME, 04217 U.S.A.
> > 207-836-2576
> >
> > Virus Protection by Norton and ZoneAlarm
> > ----- Original Message -----
> > From: "Roger Dallimore" <mw0idx@etarcadia.freemove.co.uk>
> > To: <QRPSolarPower@yahoo.com>
> > Sent: Tuesday, May 20, 2003 3:10 PM
> > Subject: Re: [QRP Solar Power] Solar Panels
> >
> >
> > > Hi Gregg
> > >
> > > I've just bought a 10w backpacking folding panel from CT solar and find
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> > > Regards
> > >
> > > Roger MW0IDX
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> > >
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> > > Connecticut Solar. Any feedback or advice on alternative portable
> > > panels would be greatly appreciated.
> > >
> > > Thanks in advance.
> > >
> > > Gregg; W0MPR
> > > Boulder CO
> > >
> > >
> > >
> > >
> > > To unsubscribe from this group, send an email to:
> > > QRPSolarPower-unsubscribe@yahoogroups.com
> > >
> > >
> > >
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> > > ----->
> > >

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> > >
> > >
> > >
> > > Your use of Yahoo! Groups is subject to
> <http://docs.yahoo.com/info/terms/>
> > >
> > >
> >
>

Date: Wed, 21 May 2003 01:54:52 GMT
From: psschwarz@kellnet.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151047] Re: OT: XY Plotting program
Message-ID: <20030521015452.18071.qmail@mail.kellnet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Try Lotus 1-2-3 if you have it. Others that work are mathematically oriented and include Mathcad, Matlab, and Maple softwares (not worth the expense if you wouldn't use any of them regularly). C++ works well if a programmer.

Patrick...KB8RTZ...

Royce Simmons writes:

> Hello All,
>
> Do you know of a XY Plotting program? I can't get excel to let me define the
> independent variable for the X axis nor
> can I find a way to put labels on the axis.
>
> Thanks,
>
> Royce

Date: Tue, 20 May 2003 20:38:20 -0500
From: "George, W5YR" <w5yr@att.net>
To: <n9vv@wideopenwest.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [151048] Re: Tuner for DSW-II (portable in front yard)
Message-ID: <029b01c31f39\$a9b600a0\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Heard you good and loud - was mobile and couldn't call.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----

From: "Ken Hopper N9VV" <n9vv@wideopenwest.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 3:57 PM
Subject: Re: Tuner for DSW-II (portable in front yard)

> On Saturday and Sunday I was "portable" out in the front lawn with a
> long wire up in a neighbors tree :-) I had a ball with the DSW-II (see
> a dozen Qs in the online log) and the beautiful ZM-2 from Emtech. It
> worked perfectly with and without a counterpoise attached to it. I tried
> making a simulated "dipole" out of two 25ft wires and that also worked
> great.

>

> Tuning with the ZM-2 is so easy (just extinguish the little LED) but it
> was somewhat difficult to see the LED under bright sunlight. That is
> where a conventional SWR meter might be useful. I didn't try one of the
> MFJ low power tuners, but I suspect it would have had a tough time
> matching my attempt at a wire ANT.

>

> I used a rechargeable 12VDC power pack from J&S
> <URL:<http://12voltproducts.com/Roadpro/RPSL-600.html>> for \$27. I also
> used an external keyer because my brain can't get synched up with the
> DSW-II internal keyer (used a CodeBoy from Radio Adventures). The whole
> setup was on a scrap piece of plywood sitting on my lap in a lawn chair
> :-). The neighbor kids tore up my counterpoise twice while chasing their
> frisbees, but overall it worked out great. You can't beat the
> sensitivity and stability of the DSW-II.

>

> This was my first portable/field operation in m-a-n-y years and I
> really enjoyed it.
> GL to you.
> de ken n9vv
> <http://www.n9vv.com/dsw2-20project.html>
>

Date: Tue, 20 May 2003 21:40:17 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU, lookup@qrz.com
Subject: [151049] 4:1 Balun winding info
Message-ID: <20030520.214018.3934.0.kc8aon@juno.com>

I have in my possession a large powdered iron torroidal core - Red mix 2 that is 2 1/4 inches in diameter, 1 3/8 inch inside diameter and 1 inch thick. How many turns of wire do I need to wind on it for a broadband 4:1 balun ? I have found info for a ferrite core of similar dimensions, but none for the powdered iron core. Can anyone help ?

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
<> RockMite 40 <>
QRP-L #2112, FPqrp #33, AR QRP #269
QRP'ers DEPEND ON SKILL - NOT RAW POWER !

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Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Wed, 21 May 2003 01:51:54 +0000
From: Larry Cahoon <lejek@erols.com>
To: lmairs@direcway.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151050] Re: Economical 10W solar panels
Message-ID: <5.1.0.14.0.20030521014049.026ae2a8@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Don't jump on them too hard Lee. At over \$500 for your 120 watt panel not too many guys are going to jump. I know I'm not. I've got a couple of 5 watt panels and they do everything I currently need in terms of solar power. Sure I paid a lot more than \$4.75 per watt, but I also saved

\$300-\$400 I didn't need to spend. Perhaps some day I will get more serious about solar power - but if I do, and with the nice south facing roof I have, I'll be getting a lot more than a 120 watt setup.

73 de Larry.....WD3P
<http://www.wd3p.net/>

At 08:32 PM 5/20/2003 -0400, Lee Mairs wrote:
>Whoa! Nine dollars per watt is not economical. Get a large panel that will
>really do something. My Kyocera 120 watt panels are less than \$4.75/watt!

Date: Tue, 20 May 2003 22:11:48 -0400
From: Steve.Lawrence@ITWFEG.COM
To: sslyon@megalink.net
Cc: qrp-l@Lehigh.EDU
Subject: [151051] Re: Economical 10W solar panels
Message-ID: <0F35EAF40E.B7A0E60D-0N85256D2D.000A84E9-85256D2D.000C10C2@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Seab,
Take a look at these items from Harbor Freight...

<http://www.harborfreight.com/cpi/ctaf/Displayitem.taf?itemnumber=46878>
<http://www.harborfreight.com/cpi/ctaf/Displayitem.taf?itemnumber=46501>

The second item looks particularly interesting for QRP field work. I'm wondering if it's stocked in the regional stores. I recommend that you search their site using the keyword "solar" from their home page.

I ordered a USF-5 panel from this guy about a year ago. Better price than most:

<http://www.mrsolar.com/>
but the panel is large, and I believe this type is less efficient than the crystalline type. I like the folding idea from Harbor Freight.

And a variety of panels at:
<http://www.batterystuff.com/index.htm>

And finally, who knows what you'll find at:
<http://www.goldmine-elec.com/>

GL,
Steve

aa8af

"sslyon" <sslyon@megalink.net>
Sent by: owner-qrp-1@Lehigh.EDU
05/20/2003 09:36 PM
Please respond to sslyon

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc:
Subject: Economical 10W solar panels

Hmmmm... I should have been more specific. What I'm looking for is to maintain a 2.2Ah batt on QRP field operations. The newest QRP rig I have is super small, super efficient, and my Makita 12V batteries will do just fine. Sized specifically for this application, I'm looking for the best bang/buck -and thought that this one looked pretty good. Am I naive?
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Bethel ME, 04217 U.S.A.
207-836-2576

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To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
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> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Tuesday, May 20, 2003 5:19 PM
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> > 207-836-2576
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> > From: "Roger Dallimore" <mw0idx@etarcadia.freemove.co.uk>
> > To: <QRPSolarPower@yahoo.com>
> > Sent: Tuesday, May 20, 2003 3:10 PM
> > Subject: Re: [QRP Solar Power] Solar Panels
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> > > > panels would be greatly appreciated.
> > > >
> > > > Thanks in advance.
> > > >
> > > > Gregg; W0MPR

```

> > > > Boulder CO
> > > >
> > > >
> > > >
> > > >
> > > > To unsubscribe from this group, send an email to:
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> > > Questions.
> > > http://us.click.yahoo.com/Lj3uPC/Me7FAA/uetFAA/DLTolB/TM
> > >
-----~-->
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-----
Date: Tue, 20 May 2003 21:31:30 -0500
From: Michael Goins <mgoins@usa.net>
To: <Steve.Lawrence@ITWFEG.COM>, <qrp-1@lehigh.edu>
Subject: [151052] Re: [Re: Economical 10W solar panels]
Message-ID: <171HeucfE1520S02.1053484290@uwdvg002.cms.usa.net>
Mime-Version: 1.0

```

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

The ISuns shown at Harbor Freight will link together to double the amperage, which is fairly low per each, and they show up on ebay all the time. Pretty neat little units though. There's also the new VW ones meant to keep the battery topped off, but again, low amp. I have a folding in a plastic hard case that came from Dayton a few years back (Suncharger). Powers the home station here and when I have the rigs "out."

72,
mike
wb5yjx
100% Solar station: SW20+, SW30+, RM-40
Mobile: FT-817 @ 1 watt, CW and SSB
QRP-ARCI 3922 (former managing editor, QRP Quarterly), =

SOC 54, Flying Pig 447, QRP-L 2130, Adventure Radio 810,
Alaska QRP 514, QCWA 30857

Date: Tue, 20 May 2003 22:59:04 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <kc8aon@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151053] Re: 4:1 Balun winding info
Message-ID: <20030521030113.VLWD11617.imf62bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 5/20/03 9:40 PM, Rick McKee at kc8aon@juno.com wrote:

>I have in my possession a large powdered iron torroidal core - Red mix 2
>that is 2 1/4 inches in diameter, 1 3/8 inch inside diameter and 1 inch
>thick. How many turns of wire do I need to wind on it for a broadband
>4:1 balun ? I have found info for a ferrite core of similar dimensions,
>but none for the powdered iron core. Can anyone help ?

Ah, Baluns. One of my favorite topics.

For a 4:1 Voltage balun that covers 3-30 MHz (which would be appropriate for a mix 2 core), about 10 bifilar turns are needed.

Hookup is different for a voltage balun than for a 1:1 current balun (which would be appropriate for a ferrite core. For a 4:1 voltage balun, you will have four wires: 1, 2, 3 and 4, where 1 and 2 are one end of the windings, and 3 and 4 are the other end. 1-3 is one coil, and 2-4 is another. Hookup is as follows:

- 1: input center lead and one side of output.
- 2: input ground, connect to lead 3
- 3: connect to lead 2
- 4: connect to other side of output.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 20 May 2003 22:25:45 -0500
From: "Charles" <cvest@hit.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [151054] Re: Economical 10W solar panels
Message-ID: <000b01c31f48\$ab2152a0\$9b11ecd8@hppav>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

B G Micro has self regulating 12 VDC @ 550 mA solar panels in their latest catalog for \$18.88. These were removed from service.
www.bgmicro.com

Item # PWR1149

...Charlie...KC0EH...

Date: Tue, 20 May 2003 23:16:19 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151055] NVIS Receiving, reloaded

Message-ID: <3ECAEF83.3113A851@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Many thanks to a variety of folks who replied on list, and off. I do feel I need to clarify 'for the record' what I was doing, and clear up some misconceptions about NVIS and 20m. In other words, if you're not interested, this is the time to find the delete key :-)

My quest started with a practical concern: I purchased a pre-owned White Mountain 20m rig in February, and have been having so much fun with it that I decided to try to make WAS with it. I'm getting pretty close, but in posting my yet-to-be-worked states on the neat map from the NJQRP website, I realized I hadn't worked many close-in states: GA, SC, NC, VA, MD, DE (of course), etc. So I wondered if a NVIS set-up could help me gain these states??

Then I got to thinking (always dangerous): if I'm trying to work another ham in the nearby area, how will I hear them if they are working off distance-optimized antennas, while I'm using a NVIS antenna? This resulted in my initial posting of the question to the list (only after checking the Handbook, several military manuals, and an extended Google search) on NVIS receiving. Stuart K5KVH offered some very helpful observations and practical experiences from other bands.

I decided to try some experiments and proceeded to set-up a 20m dipole at 10 feet, within the .1-.2 wavelength above ground optimum that LB Cebik and others note for NVIS.

Now I chose 20m not because I didn't know NVIS is usually not recommended for this band, but precisely because I wanted to know more about NVIS and 20m is on the margins. I've received about a dozen emails saying NVIS never works for 20m, and this is simply not true. What is true is that military sources (and others) claim that RELIABLE NVIS operations are usually from 4-12 MHz. Note the qualifier RELIABLE.

[Propagation aside] I cannot claim to be any form of expert, but what I can claim is that I have read thousands of pages of 'stuff' on NVIS operations, and antennas, and theory, and experiences. The basic idea is that by bringing a horizontal antenna down to .1-.2 wavelengths over ground, you change the direction of radiation, essentially sending rf energy straight up. In theory, this rf energy is reflected back to earth on its take-off angle, covering the near-field of the antenna with signals. A number of factors can alter this scenario, the main factor being the degree of ionization of the F2 layer of the ionosphere. This is measured on a regular basis and is posted on several websites as foF2, sometimes called the "Critical Frequency" (thanks Vic AD8K for

this term). Observatories shoot signals at various frequencies straight up, and measure the maximum frequency at which reflection occurs. Depending on the season, the time of day, and where we are at in the 11-year solar cycle, this frequency varies. 12 MHz is almost always within this maximum, 14 MHz is sometimes "bouncy" and sometimes not. In other words, it is not always "reliable" for NVIS. But under some conditions, it is available. [propagation aside done]

So, continuing reading and practical experimenting led me to the conclusions I posted several days' ago for 20m: they are not applicable for 4-12 MHz as far as I know, though I have my hunches.

NVIS communications are a system: one op with a NVIS set-up can communicate with another op with NVIS set-up with relative ease when the band is functional for foF2 propagation. One op with a NVIS set-up may hear another close-in station only because the close-in station has a radiation system that generates NVIS scatter. But most ops have radiation systems designed for optimal distance coverage and as such, a NVIS antenna will not receive these signals. And as a corollary, a NVIS signal will be received by a non-NVIS station, only if their receiving system is non-directional, or partially oriented toward near-vertical signals. Most close-in ops will not detect a NVIS signal.

So I'm still stuck with my practical problem: how to work close-in states on 20m?

And just in case you think this is just my problem, remember the summer Fox Hunts are on 20m.

Hope this helps someone out there!

72/73

Ken KG4FGC

Date: Tue, 20 May 2003 23:05:41 -0500
From: mjfitz@uswest.net
To: qrp-l@Lehigh.EDU
Subject: [151056] Solar Gell Cell Charger
Message-ID: <3ECAFB15.F115EBD6@uswest.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For what it's worth, Gents, Ladies:

Here(below) is the solar panel/battery maintainer that I used last summer all the time out at the farm garden. I had a couple of 6 V 12 Ahr gel cells in series that I kept where I operate portable. I paid twenty bucks for it a couple/three years ago from Harbor Freight. I can say that it does seem to be weatherproof so far...but I don't know if just a 1.8 W unit is what you want...think it runs about 100-120 ma at 15 V or so in full sun. It was connected all the time and the batteries were left under a plastic bucket. I simply laid the panel on the ground and inclined it slightly to the south. The only trouble I had with it was when the grasshoppers ate the insulation off the wires...pretty hungry boogars, huh...the wires didn't have Sevin on them... Luckily, the unit has a 1/8" jack for the output harness...easily replaced.

The batteries ran my rigs a few times a week. In the winter I put the panel in an eastern window and it keeps a 7 Ahr gel cell topped off. It does not seem to overcharge it...as the description states. If you stare at the blinking red LED long enough it is rather mesmerizing...but I degress...

Mike NOMF

<http://www.harborfreight.com/cpi/ctaf/Displayitem.taf?itemnumber=38055>

Date: Wed, 21 May 2003 07:40:17 -0100
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@Lehigh.EDU
Subject: [151057] NE602 Balanced Mod Problem
Message-ID: <1.5.4.32.20030521084017.00a36694@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm using an NE602 as a balanced modulator in my 20 meter QRP DSB transceiver. Sort of the same design used in the Wee-Willy rig. VXO into pin 6 (unbalanced). Audio (from an LM386 serving as mic amp) into pin 8 (also unbalanced).

I'm getting disappointing levles of carrier suppression. I don't have the

gear to measure it accurately, but I'm getting more carrier than I got when I used diode modulators on earlier rigs. I estimate that the carrier is about 10 db below voice peaks. I should be doing better.

Any thoughts on how to improve carrier suppression with the NE-602? I've tried reducing the signal level at pin 6. This seems to help, but not enough.

Would it help if I used a balance (two pin) input for the VX0 input?

73 de Bill CU2JL N2CQR
Sao Miguel Island, Azores, Portugal
900 miles West of Lisbon 37.7N 25.67W
<http://planeta.clix.pt/n2cqr>

Date: Wed, 21 May 2003 05:35:28 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Rick McKee <kc8aon@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151058] Re: 4:1 Balun winding info
Message-ID: <Pine.LNX.4.44.0305210525040.1439-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Rick, I suggest you save your powdered iron toroid for another application. Last year bought a 4:1 balun capable of 100 watts it said and for fun I measured the loss through it. It was converting about half the power to heat! When I looked it had a red toroid.

Then I got a ferrite core of the same size and re-measured loss and it was below 5% So invest \$5.00 for a ferrite core and then please make it a 1:1 balun. They work better for a wide value of impedances.

On Tue, 20 May 2003, Rick McKee wrote:

> I have in my possession a large powdered iron torroidal core - Red mix 2
> that is 2 1/4 inches in diameter, 1 3/8 inch inside diameter and 1 inch
> thick. How many turns of wire do I need to wind on it for a broadband
> 4:1 balun ? I have found info for a ferrite core of similar dimensions,
> but none for the powdered iron core. Can anyone help ?

>
> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
> SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
> <> RockMite 40 <>

> QRP-L #2112, FPqrp #33, AR QRP #269
> QRP'ers DEPEND ON SKILL - NOT RAW POWER !
>
>
>

> -----
> The best thing to hit the internet in years - Juno SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
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>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Wed, 21 May 2003 08:05:06 -0400
From: "AI2Q" <ai2q@adelphia.net>
To: <kc8aon@juno.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [151059] RE: Homeland Security Threat Raised to Orange
Message-ID: <000401c31f91\$38a59300\$7e01a8c0@CHIPCENTERSF>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes Rick, the threat is raised, and the orange flag is out, but little is being done.

The borders are wide open (ask any Mexican wetback), little Federal money has trickled into helping state and local police departments, and training is nil in most other places, including ham radio.

The US Muslim community remains mostly silent, while the president keeps talking about "freedom" as THE issue (which *is* important, obviously) instead of our out-of-control screwy foreign policy.

The Taliban is regrouping in Afghanistan, the opium/heroin trade in central Asia is flourishing again, and big drug money is flowing freely to radical extremist organizations.

We're approaching the magical 2-year mark Rick. That's approximately the time cycle for murderous Islamic bin-Laden-inspired a-holes to attack.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687
<http://users.adelphia.net/~alexmm/ai2q.htm>

.-.-.

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Rick McKee
Sent: Tuesday, May 20, 2003 6:43 PM
To: Low Power Amateur Radio Discussion
Subject: Homeland Security Threat Raised to Orange

Date: Wed, 21 May 2003 08:56:35 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k3tks@u1.abs.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [151060] Re: Mail Call and Small Tubes
Message-ID: <3ECB7783.77A2B097@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sir George is correct in what he says about me. I came to live in Silver Spring, Maryland much later. However, I had relatives living here at the time he refers to. In fact I broke my leg in a shopping center only one block from the old JHU/APL building in 1945!

By the time I came to live in Silver Spring, in 1958, to go to college, JHU/APL had moved to Scaggsville, Md. Yes, it is a real name. It is about 25 miles north of Silver Spring. In 1965 I began working with APL on satellite navigation. They are a first rate technical group!

73

Date: Wed, 21 May 2003 13:01:29 +0000
From: "Alan Fryer" <N3BJ@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [151061] FT: 140W 80-10M Amp
Message-ID: <Law9-0E61tOdMVLHxbN00015886@hotmail.com>

For Trade: Communications Concepts EB63 amp with output filters for 80, 40, 20,

15, 10M. This is a robust Motorola design and runs two MRF 454 transistors. Go to www.communications-concepts.com/hf_amplifiers.htm for details. The amp is assembled, but not tested. Includes the heatsink and changeover relay on board. The filters are assembled, but not incorporated with the amp. Would make a great addition for when those QRO moments strike...

Would like to trade for something on the order of a Norcal 40, Norcal 20 converted to 40M , a couple of small DC rigs or ??. Make me an offer.....

Alan, N3BJ
Bent Mountain, VA

Date: Wed, 21 May 2003 09:24:10 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151062] Re: Homeland Security Threat Raised to Orange
Message-ID: <3ECB7DFA.F3489DAF@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

My response not because of what Alex has said. However, I seriously wonder why this message was considered appropriate for this list by the moderator.

73,
--Alex KR1ST

AI2Q wrote:
>
> Yes Rick, the threat is raised, and the orange flag is out, but little is
> being done.

Date: Wed, 21 May 2003 09:43:14 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: kr1st@amsat.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151063] Re: Homeland Security Threat Raised to Orange
Message-ID: <3ECB8272.8030105@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Alex,

Very sorry. Upon rereading it I don't consider it appropriate and I can't believe I let it get by. I was quickly scanning and saw:

> little Federal money
> has trickled into helping state and local police departments, and training
> is nil in most other places, including ham radio.

and let it go. I will try to be more careful.

73

Jim N3VXI

> My response not because of what Alex has said. However, I seriously
> wonder why this message was considered appropriate for this list by the
> moderator.

>

> 73,

> --Alex KR1ST

>

> AI2Q wrote:

>

>>Yes Rick, the threat is raised, and the orange flag is out, but little is
>>being done.

Date: Wed, 21 May 2003 09:41:43 -0400
From: Jerry Lofstead <w3cde@bellsouth.net>
To: kc8aon@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151064] Re: 4:1 Balun winding info
Message-ID: <3ECB8217.B6473241@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rick,

You need 14 turns bifilar wound. I have 4 of them wound on the same core material, #2 mix, and have never had any heating problems, even at a KW. Karl must have wound his wrong or made some other mistake. They work great and last a long time... I wound one with 24 gauge wire for QRP on a 2" core and it worked the same as the others but at lower power, due

to the smaller wire gauge... current limited..

Jerry
W3CDE

Rick McKee wrote:

>
> I have in my possession a large powdered iron torroidal core - Red mix 2
> that is 2 1/4 inches in diameter, 1 3/8 inch inside diameter and 1 inch
> thick. How many turns of wire do I need to wind on it for a broadband
> 4:1 balun ? I have found info for a ferrite core of similar dimensions,
> but none for the powdered iron core. Can anyone help ?
>
> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
> SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
> <> RockMite 40 <>
> QRP-L #2112, FPqrp #33, AR QRP #269
> QRP'ers DEPEND ON SKILL - NOT RAW POWER !
>
> -----
> The best thing to hit the internet in years - Juno SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
> Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Wed, 21 May 2003 13:47:29 +0000
From: "COLIN WHITMORE" <cncwhitmore@msn.com>
To: qrp-l@lehigh.edu
Subject: [151065] RE: Homebrew generator
Message-ID: <BAY4-F20aGe2L64ut9Y0001eb5b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

You can get matched belts from the manufacturer. The best way is to get the kind that you have to separate yourself. This will ensure that the belt diameters are identical. It helps a bunch for tensioning problems.

Cheers,
Colin
N0YGY

bob wrote:

<snipped>

So, you might be able to pay a little bit more for the industrial version and still get by with one belt. Might be cheaper than getting a multi-pulley setup and dealing with alignment and tensioning.

<snipped>

Protect your PC - get McAfee.com VirusScan Online
<http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963>

Date: Wed, 21 May 2003 07:17:35 -0700 (PDT)
From: Gary Slagel <gdslagel@yahoo.com>
To: QRP L <qrp-l@Lehigh.EDU>
Subject: [151066] Solar Charging and K2?
Message-ID: <20030521141735.24688.qmail@web11601.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I really liked the looks of the harbor freight 5w solar panel that folds to a package 4" x 9" package (but I wonder how much it weighs). (<http://www.harborfreight.com/cpi/ctaf/Displayitem.taf?itemnumber=46501>)

I can operate my k2 about 6 hours on the internal battery. I've been thinking I need another 2.2 ah battery to get another 6 hours out of it for longer contests but... I'd guess this solar charger weighs a little less and in good sun would almost keep the internal battery completely topped up while operating.

I don't want to have to carry an extra battery AND the charger so... Can I use a solar charger to charge the k2 while I operate?

Any thoughts out there?
Thanks for the help,
Gary

=====
Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://gdslagel.bravepages.com>

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
<http://search.yahoo.com>

Date: Wed, 21 May 2003 10:42:07 -0400
From: Mark Gilger <mgilger@brightdsl.net>
To: <qrp-1@Lehigh.EDU>
Subject: [151067] Solar Gell Cell Charger
Message-ID: <5.1.0.14.2.20030521102008.038080e0@mail.brightdsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

For everyone interested in Solar power there is an excellent magazine called "Home Power". Lots of interesting solar related articles and they let you download the current issue for free.

<http://www.homepower.com/>

Regards,
Mark, WB0IQK

At 11:05 PM 5/20/03 -0500, mjfitz@uswest.net wrote:

>For what it's worth, Gents, Ladies:

>

> Here(below) is the solar panel/battery maintainer that I
>used last summer all the time out at the farm garden. I had
>a couple of 6 V 12 Ahr gel cells in series that I kept where
>I operate portable. I paid twenty bucks for it a
>couple/three years ago from Harbor Freight. I can say that
>it does seem to be weatherproof so far...but I don't know if
>just a 1.8 W unit is what you want...think it runs about
>100-120 ma at 15 V or so in full sun. It was connected all
>the time and the batteries were left under a plastic
>bucket. I simply laid the panel on the ground and inclined
>it slightly to the south. The only trouble I had with it
>was when the grasshoppers ate the insulation off the
>wires...pretty hungry boogars, huh...the wires didn't have
>Sevin on them... Luckily, the unit has a 1/8" jack for the
>output harness...easily replaced.

>The batteries ran my rigs a few times a week. In the winter
>I put the panel in an eastern window and it keeps a 7 Ahr
>gel cell topped off. It does not seem to overcharge it...as
>the description states. If you stare at the blinking red
>LED long enough it is rather mesmerizing...but I degress...

>

> Mike NOMF
>
> <http://www.harborfreight.com/cpi/ctaf/Displayitem.taf?itemnumber=38055>

Date: Wed, 21 May 2003 10:53:39 -0400
From: "Ron McConnell" <rcmcc@earthlink.net>
To: "NJQRP" <njqrp@njqrp.org>,
"Rick WB2QOQ Anderson" <wb2qoq@lucent.com>,
Cc: "W2IOL" <w2iol@arrl.net>
Subject: [151068] UPS 450VA @ \$40 with \$30 rebate = net \$10 at Staples
Message-ID: <000001c31fa8\$c4b88660\$bdcba441@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Staples "Special Buy" - not a Clearance this time

Energizer ER-HM450 UPS/Battery Backup
Staples price \$40
Staples rebate \$30
net price \$10 (+ sales tax on \$40, of course)

Limit one per household*.
Good for a few more days (May 25th?).
Staples is usually quick
about getting rebates back.

The battery alone, Energizer FB12-3.2
12Vdc, 3.2AH, is worth at least \$10.

Our main home telephone is cordless.
The base station is plugged into one
of these UPSs to cover for power outages.

I'm sure folks can also think of ham uses.

Cheers, 73,

Ron McConnell
w2iol

Freeware great circle bearing/distance,
lat/long & grid, miles-per-Watt,...

calculator GCGC at

<http://home.earthlink.net/~rcmcc>

* Hmm... Maybe my wife's aunt who lives
with us needs one...

Date: Wed, 21 May 2003 11:18:14 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: n2cqr@clix.pt
Cc: qrp-1@lehigh.edu
Subject: [151069] Re: NE602 Balanced Mod Problem
Message-ID: <3.0.6.32.20030521111814.007bedc0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I'm getting disappointing levles of carrier suppression. I don't have the
>gear to measure it accurately, but I'm getting more carrier than I got when
>I used diode modulators on earlier rigs. I estimate that the carrier is
>about 10 db below voice peaks. I should be doing better.
>

Bill,

I also tried the SA612/NE602 as a DSB modulator with similer results. You
can add a 50 K trimmer (wipper to ground) across pins 1+2 and balance it
out a little better, but not entirely. If you look at the Willie-Nille
schematic, you will see the output PA FET isn't baised for linear
operation, just the driver. I belive this is done because there is so much
carrier going to the output fet, the carrier is at a level which just about
or just starts to turn the FET on, without any additional bias.

The other problem I found was that it was very easy to overdrive the '612
with audio and make it distort. You could probably drive it directly from
an electrec mic element, without additonal amplification.

I decided to go with a ADE-1 diode mixer instead and had much better
results. You can use a 602/612 as a balance modulator in a SSB rig, because
the xtal filter will remove the carrier, but they don't seem well suited
for use in a DSB rig.

72,
Steve, KD1JV
"Melt Solder"

White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Wed, 21 May 2003 11:43:30 -0400
From: "Ken Simpson, W8EK" <W8EK@fdt.net>
To: "QRP List" <qrp-1@lehigh.edu>
Subject: [151070] CW key FS
Message-ID: <CJENLDMADFCJIFBODNPGMEBDCJAA.W8EK@fdt.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

CW Key For Sale:

This CW key is sort of a Japanese copy of J-38 key.
Not exactly, but sort of! There is no shorting switch,
as if we need that anyhow. But it has an oval base
that is brass colored. The key is mounted on a wood
base, that I think is cedar. Under the wood base is a
piece of lead to add weight, so the key will not "walk
around". There are also four fairly large rubber feet
to keep it from slipping.

\$30 plus shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@fdt.net or W8EK@arrl.net
Voice Phone (352) 732-8400

Date: Wed, 21 May 2003 11:57:03 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [151071] Re: Tuner for DSW-II
Message-ID: <002501c31fb1\$ad1569c0\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I used the Emtech tuner to tune an NJQRP shorty dipole when I went to my island place. I had to use the MFJ antenna analyzer first, and some of the bands were really tricky (20 meters especially). I bought a BLT recently, and will take that with me to see if it works better. I also will try to get a some more wire in the air.

73 de Lee
km4yy/8

----- Original Message -----

From: <tlogan7@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 3:15 PM
Subject: Tuner for DSW-II

> In those odd times when you might be in the field and not have a resonant antenna (don't ask me why), what do (or would) many of you use as a antenna tuner for the DSW-II? Does the little Emtech fit the bill? Any observations are appreciated. 73/Tim

>
>

Date: Wed, 21 May 2003 09:36:54 -0700 (PDT)
From: Garie Halstead <khyberpass65@yahoo.com>
To: Low Power radio discussion <qrp-l@Lehigh.EDU>
Subject: [151072] Antenna category?
Message-ID: <20030521163654.38403.qmail@web80509.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Does anyone know of a QRP operating event where stations are not only categorized by their output power but also by their antenna system?

I believe I remember seeing this in contest rules somewhere but can't recall the contest name or if it even had a QRP category.

Anyway, the point being, it's kind of tough seeing an attic dipole station going up against a 7 element tribander at 80 ft station. The

same holds true for those who live in condos using stealth antennas.

Personally, I'm not in either situation (attic dipole or stealth ant) but would like to see at least one operating event where the scores of these type of antenna systems are not lumped in with the big yagis who are always at the top of the scoring list. Or perhaps giving the simple antenna stations some type of scoring multiplier advantage.

I'm not anti-yagi and hope to have one up here at my QTH someday. I also fully realize that playing fields can never be totally leveled. It's just that I treasure each contact I have with these ops who go to the lengths that they do in order to enjoy their QRP hobby given the difficult situations they find themselves in with regard to antenna choices. Even though they're a minority, they nonetheless have my admiration and I'd like to see them get a break in a QRP operating event from a scoring standpoint.

If not now existing, how does the list feel about such an event? Obviously, this would not be a portable operating event where we all are using simple antennas and throwing wires in trees. HI

72, Gary -K8KFJ-
West Virginia

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
<http://search.yahoo.com>

Date: Wed, 21 May 2003 13:04:16 -0400
From: Caitlyn Martin <ku4qd@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [151073] Re: Several Antenna Questions
Message-ID: <20030521130416.0c5e892c.ku4qd@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi, everyone,

This is a very interesting discussion, and some very informative posts.

I will join the chorus in saying that reciprocity doesn't always exist. Folks up in the Arctic and sub-Arctic regions (i.e. Fairbanks, AK) have complained about "one way propagation" for years. There certainly have

been times when I had more power and a bigger antenna than a station I was copying, and yet the station at the other end could not hear me. That, as has been suggested, could be due to local noise, polarization, or a non-reciprocal path through the ionosphere. An ideal situation is where you can have both a vertical and a beam or wire antenna.

While y'all are asking antenna questions and getting good answers, perhaps you can explain my antenna. I have three dipoles, half waves on 80m, 40m, and 20m. All three are resonant in the appropriate part of the band as expected. They are fed from a common balun, which is fed by about 160' of RG-8X coax. The center point is about 31 feet (10 meters) off the ground on my little tower. The ends are slightly lower, but are all over 25 feet. The antennas are laid out like the spokes of a wheel, meaning they all go in different directions. Each dipole, however, is straight or very close to it.

I have 1:1 resonant points in the 20, 40, and 80 meter bands. In the 15 meter band I get down to about 1.7:1, which is acceptable and, again, expected from the 40 meter dipole. In the 17 meter band I have a dip down to about 1.5:1 and on 12 meters it's about 1.6:1. Why does it work on those bands? I suspect I am radiating through all three dipoles to get this result. Any clue what my pattern must be like? I suspect it's not true omni, but I also suspect it works reasonably well in all directions.

FWIW, the SWR is very high on 30 meters, and is above 2:1 on most of 10 meters.

Any theories on why I get the results I do? I effectively have a very decent six band wire antenna when I expected four bands. I await the opinions of the experts.

72/73,
Caity
KU4QD

Date: Wed, 21 May 2003 12:24:24 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: <ku4qd@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151074] RE: Several Antenna Questions
Message-ID: <90B09553A615CE4192A646D8CFA67DA8428ED0@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

Caity,

Are all three antennas 1/2 wave dipoles?

73 de N4MVL Lee

-----Original Message-----

From: Caitlyn Martin [mailto:ku4qd@earthlink.net]
Sent: Wednesday, May 21, 2003 1:04 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Several Antenna Questions

Hi, everyone,

This is a very interesting discussion, and some very informative posts.

I will join the chorus in saying that reciprocity doesn't always exist.=20
Folks up in the Arctic and sub-Arctic regions (i.e. Fairbanks, AK) have
complained about "one way propogation" for years. There certainly have
been times when I had more power and a bigger antenna than a station I
was copying, and yet the station at the other end could not hear me.=20
That, as has been suggested, could be due to local noise, polarization,
or a non-reciprocal path through the ionosphere. An ideal situation is
where you can have both a vertical and a beam or wire antenna.

While y'all are asking antenna questions and getting good answers,
perhaps you can explain my antenna. I have three dipoles, half waves on
80m, 40m, and 20m. All three are resonant in the appropriate part of
the band as expected. They are fed from a common balun, which is fed by
about 160' of RG-8X coax. The center point is about 31 feet (10 meters)
off the ground on my little tower. The ends are slightly lower, but are
all over 25 feet. The antennas are laid out like the spokes of a wheel,
meaning they all go in different directions. Each dipole, however, is
straight or very close to it.

I have 1:1 resonant points in the 20, 40, and 80 meter bands. In the 15
meter band I get down to about 1.7:1, which is acceptable and, again,
expected from the 40 meter dipole. In the 17 meter band I have a dip
down to about 1.5:1 and on 12 meters it's about 1.6:1. Why does it work
on those bands? I suspect I am radiating through all three dipoles to
get this result. Any clue what my pattern must be like? I suspect it's
not true omni, but I also suspect it works reasonably well in all

directions.

FWIW, the SWR is very high on 30 meters, and is above 2:1 on most of 10 meters. =20

Any theories on why I get the results I do? I effectively have a very decent six band wire antenna when I expected four bands. I await the opinions of the experts.

72/73,
Caity
KU4QD

Date: Wed, 21 May 2003 12:30:09 -0500
From: George Fremin III <geoiiii@kkn.net>
To: Garie Halstead <khyberpass65@yahoo.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151075] Re: Antenna category?
Message-ID: <20030521173009.GD7263@kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Wed, May 21, 2003 at 09:36:54AM -0700, Garie Halstead wrote:
> Does anyone know of a QRP operating event where stations are not only
> categorized by their output power but also by their antenna system?

The CQ WPX contest has a "tribander and wires" catagory.

The CW version is this weekend.

<http://www.cq-amateur-radio.com/cqworldwidewpx.html>

--
George Fremin III - K5TR
geoiiii@kkn.net
<http://www.kkn.net/~k5tr>

Date: Wed, 21 May 2003 13:29:00 -0400
From: "Noyce, Bill" <william.noyce@hp.com>

To: <qrp-1@Lehigh.EDU>
Subject: [151076] Re: Antenna category?
Message-ID:
<6D6463F31027B14FB3B1FB094F2C744703377D87@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

> Does anyone know of a QRP operating event where stations are not only
> categorized by their output power but also by their antenna system?

Here's one...

<http://www.cqc.org/contests/gold2003.htm>

-- Bill, AB1AV

Date: Wed, 21 May 2003 12:28:45 -0500
From: "Tim, N9PUZ" <n9puz@arrl.net>
To: <QRP-1@Lehigh.EDU>
Subject: [151077] Re: Antenna category?
Message-ID: <2003521123325.815508@EOS>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

On Wed, 21 May 2003 09:36:54 -0700 (PDT), Garie Halstead wrote:
>Does anyone know of a QRP operating event where stations are=
not
>only categorized by their output power but also by their=
antenna
>system?

I recall two references to contests where antennas were limited=
to certain
things but can't find the exact reference to either.

One was a club event. Club members were to make as many contacts=
as possible
but could not use traditional wire or aluminum antennas. They had=
to load
things like flag poles, fences, railings, gutters, etc.

I also recall seeing a post about a "dipole only" event where=
height was not

specified but contestants were supposed to use simple wire dipole=
type
antennas.

Neither of these events was specifically for QRP power levels as=
I recall.

Tim, N9PUZ

Date: Wed, 21 May 2003 12:36:38 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: <ku4qd@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151078] RE: Several Antenna Questions
Message-ID: <90B09553A615CE4192A646D8CFA67DA8428ED1@TX-MSG05-
CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

Caity,

I'm guessing that it's actually your 80m dipole - If it's set up around
3.6 Mhz, then you might be a $5/2$ wave on 17m and $1\ 7/2$ wave on 12m. $5 * 3.6 = 18.0$ and $7 * 3.6 = 25.2$ - the response would also be more
broadbanded than a $1/2$ wave so I could see a resistance slightly higher
than 50 ohms. Just a guess, but I think it's a good one!!

73 de Lee N4MVL

-----Original Message-----
From: Caitlyn Martin [mailto:ku4qd@earthlink.net]
Sent: Wednesday, May 21, 2003 1:04 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Several Antenna Questions

Hi, everyone,

This is a very interesting discussion, and some very informative posts.

I will join the chorus in saying that reciprocity doesn't always exist.=20
Folks up in the Arctic and sub-Arctic regions (i.e. Fairbanks, AK) have
complained about "one way propogation" for years. There certainly have
been times when I had more power and a bigger antenna than a station I
was copying, and yet the station at the other end could not hear me.=20
That, as has been suggested, could be due to local noise, polarization,
or a non-reciprocal path through the ionosphere. An ideal situation is
where you can have both a vertical and a beam or wire antenna.

While y'all are asking antenna questions and getting good answers,
perhaps you can explain my antenna. I have three dipoles, half waves on
80m, 40m, and 20m. All three are resonant in the appropriate part of
the band as expected. They are fed from a common balun, which is fed by
about 160' of RG-8X coax. The center point is about 31 feet (10 meters)
off the ground on my little tower. The ends are slightly lower, but are
all over 25 feet. The antennas are laid out like the spokes of a wheel,
meaning they all go in different directions. Each dipole, however, is
straight or very close to it.

I have 1:1 resonant points in the 20, 40, and 80 meter bands. In the 15
meter band I get down to about 1.7:1, which is acceptable and, again,
expected from the 40 meter dipole. In the 17 meter band I have a dip
down to about 1.5:1 and on 12 meters it's about 1.6:1. Why does it work
on those bands? I suspect I am radiating through all three dipoles to
get this result. Any clue what my pattern must be like? I suspect it's
not true omni, but I also suspect it works reasonably well in all
directions.

FWIW, the SWR is very high on 30 meters, and is above 2:1 on most of 10
meters. =20

Any theories on why I get the results I do? I effectively have a very
decent six band wire antenna when I expected four bands. I await the
opinions of the experts.

72/73,
Caity
KU4QD

Date: Wed, 21 May 2003 12:29:40 -0600
From: na5n@zianet.com
To: qrp-l@lehigh.edu
Subject: [151079] Speaking of Antennas >>>
Message-ID: <20030521182941.26221.qmail@klaat.zianet.com>
Mime-Version: 1.0

Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Speaking of antennas, we are currently building three millimeter wave dish antennas at the VLA to test different designs. Construction of these antennas can be seen almost real-time via our webcams, at:

<http://www.tuc.nrao.edu/~jmagnum/alma/atf/almacam.shtml>

Eventually, 60+ of these antennas will be built at the ALMA radio telescope site in Chile. The site is one of the driest spots on earth, less than 0.1 inches of rain annually, and at about 12,000 feet ASL. Almost ideal for antennas that will be used to 80GHz! Three different companies have been hired to build their designs, which are seen on the webcam ... Vertex/RSI (antenna construction completed), AEC and Mitsubishi. Japan is one of our international partners in this project. Unfortunately, AEC elected to build their antenna inside a "barn," lending little to be seen.

They are all novel designs to accomodate the extremely short wavelengths. They will be tested to see which engineering characteristics are best suited for overall sensitivity, noise temperature, pointing accuracy, half-power beam patterns and circular polarization (LH and RH) accuracy. We hope to be doing some single-dish observing with these antennas later this year. For those who have been to the VLA site, these antennas are being built between the main control building and the center of the array. About where we did QRPTTF2001 from using Grote Rebers call, W9GFZ. Or, about where Jodie Foster's famous scene wearing her earphones in the middle of the desert was shot at.

For those of you interested in different types of antennas, thought you might find the webcam images interesting. Unfortunately, this has little application to QRP on 40M :-) To scale these dish antennas to HF, they would probably be a couple of football fields in diameter.

72, Paul NA5N

National Radio Astronomy Observatory
Very Large Array (VLA) Radio Telescope
Socorro, New Mexico

This is my own personal rambling and not an official rambling of the observatory.

Date: Wed, 21 May 2003 14:31:10 -0400

From: "w8diz" <w8diz@fpqrp.com>
To: <fpqrp-1@fpqrp.com>, <qrp-1@Lehigh.EDU>
Subject: [151080] Dayton Hamfest Prizes
Message-ID: <00ba01c31fc7\$28033e40\$b8cf1d41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Check out who won the top prize at the Dayton HamFest

<http://www.hamvention.org/prizes.html>

CONTRATS Ken...I still think you had my ticket

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

Date: Wed, 21 May 2003 14:35:32 -0500
From: "Dave Sjolín" <sjolin@swbell.net>
To: <ku4qd@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151081] Re: Several Antenna Questions
Message-ID: <0f0b01c31fd0\$2590c890\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Caitlyn Martin" <ku4qd@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, May 21, 2003 12:04 PM
Subject: Re: Several Antenna Questions

> While y'all are asking antenna questions and getting good answers,
> perhaps you can explain my antenna. I have three dipoles, half waves on
> 80m, 40m, and 20m. All three are resonant in the appropriate part of
> the band as expected. They are fed from a common balun, which is fed by
> about 160' of RG-8X coax. The center point is about 31 feet (10 meters)
> off the ground on my little tower. The ends are slightly lower, but are

> all over 25 feet. The antennas are laid out like the spokes of a wheel,
> meaning they all go in different directions. Each dipole, however, is
> straight or very close to it.
>
> I have 1:1 resonant points in the 20, 40, and 80 meter bands. In the 15
> meter band I get down to about 1.7:1, which is acceptable and, again,
> expected from the 40 meter dipole. In the 17 meter band I have a dip
> down to about 1.5:1 and on 12 meters it's about 1.6:1. Why does it work
> on those bands? I suspect I am radiating through all three dipoles to
> get this result. Any clue what my pattern must be like? I suspect it's
> not true omni, but I also suspect it works reasonably well in all
> directions.

On 17 meters, your 80 meter dipole is working at its fifth harmonic. On 12 meters, it is operating on seventh harmonic of eighty meters. While not as well known as third harmonic use (i.e. using 40 meter antenna on 15 meters), I believe the antenna will radiate effectively on all ODD harmonic frequencies. As far as pattern, you most likely have some very sharp peaks and nulls. Pattern likely similar to using an 88 ft dipole fed with open wire (See Cebik website). With a tuner I imagine you could also use the 80 meter antenna on 30 meters as 10.150 is not that far from third harmonic of 3.55 (10.5 mhz).

73 de Dave, N0IT

Date: Wed, 21 May 2003 12:47:40 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: <khyberpass65@yahoo.com>
Cc: <qrp-l@lehigh.edu>
Subject: [151082] RE: Antenna category?
Message-ID: <000a01c31fd1\$d781f4b0\$c94998d0@Bobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

The Colorado QRP Club does one, but I don't have the specifics to hand.

Bob NK7M

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf
Of Garie Halstead
Sent: Wednesday, May 21, 2003 9:37 AM

To: Low Power Amateur Radio Discussion
Subject: Antenna category?

Does anyone know of a QRP operating event where stations are not only categorized by their output power but also by their antenna system?

I believe I remember seeing this in contest rules somewhere but can't recall the contest name or if it even had a QRP category. =20

Anyway, the point being, it's kind of tough seeing an attic dipole station going up against a 7 element tribander at 80 ft station. The same holds true for those who live in condos using stealth antennas.

Personally, I'm not in either situation (attic dipole or stealth ant) but would like to see at least one operating event where the scores of these type of antenna systems are not lumped in with the big yagis who are always at the top of the scoring list. Or perhaps giving the simple antenna stations some type of scoring multiplier advantage.

I'm not anti-yagi and hope to have one up here at my QTH someday. I also fully realize that playing fields can never be totally leveled.=20 It's just that I treasure each contact I have with these ops who go to the lengths that they do in order to enjoy their QRP hobby given the difficult situations they find themselves in with regard to antenna choices. Even though they're a minority, they nonetheless have my admiration and I'd like to see them get a break in a QRP operating event from a scoring standpoint.

If not now existing, how does the list feel about such an event?=20 Obviously, this would not be a portable operating event where we all are using simple antennas and throwing wires in trees. HI

72, Gary -K8KFJ- =20
West Virginia =20

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo. <http://search.yahoo.com>

Date: Wed, 21 May 2003 13:16:21 -0700 (PDT)
From: Garie Halstead <khyberpass65@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151083] Re: Antenna category?

Message-ID: <20030521201621.97845.qmail@web80509.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- "Noyce, Bill" <william.noyce@hp.com> wrote:
> > Does anyone know of a QRP operating event where stations are not
> only
> > categorized by their output power but also by their antenna system?
>
> Here's one...
> <http://www.cqc.org/contests/gold2003.htm>
>
> -- Bill, AB1AV

Excellent Bill! Exactly what I was looking for. Tks vy much for the info.

72 //Gary -K8KFJ-

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
<http://search.yahoo.com>

Date: Wed, 21 May 2003 15:19:17 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: w8diz@fpqrp.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151084] Re: Dayton Hamfest Prizes
Message-ID: <5.2.0.9.0.20030521151617.00aa5e98@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Isn't it odd that over half the prizes went to persons in Ohio, I would thing the odds are kind of strange. There is a conspiracy to be uncovered here somewhere. ;-}

At 01:31 PM 5/21/2003, w8diz wrote:
>Check out who won the top prize at the Dayton HamFest
>
><http://www.hamvention.org/prizes.html>
>
>CONTRATS Ken...I still think you had my ticket

>
>72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
>Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
>RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

Cecil
KD5NWA

Date: Wed, 21 May 2003 13:25:27 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151085] Miniboosts Amp Kits are on the way
Message-ID: <006a01c31fd7\$1de85160\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim emailed me yesterday, and he has mailed all of the Miniboosts kits that he had received orders for (the ones ordered @\$25 when we first introduced the kits.) He is starting to receive orders for the current kits, and will process them as they come in. If you want one of these kits you better hurry. We only have about 40 of them left and we will not do another run. The Miniboosts is a CW amp for 20 & 40 meters. Details on the NorCal page. To order, send me an email with miniboosts order info in the subject line. I'll send you the details. Total cost is \$34 including shipping and handling. 72, Doug

Date: Wed, 21 May 2003 16:30:36 -0400
From: Vince Santis <vsantis@earthlink.net>
To: "Tentec (E-mail)" <tentec@contesting.com>
Cc: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Subject: [151086] FS ANC 4
Message-ID: <01C31FB6.63855FE0.vsanitis@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I have a Timewave ANC 4 for sale, It is in mint condition and comes with the original manual. \$130.00 shipped in CONUS.

Vince Santis,N1VS

Winsted, CT
vsantis@arrl.net
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161
K1 #841

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/03

Date: Wed, 21 May 2003 13:35:52 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151087] Winter 2002 and Spring 2003 QRPP are in the mail
Message-ID: <007001c31fd8\$926fbfe0\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, I delivered the latest two issues of QRPP to the post office this morning, and they are working up the mail right now to go out this evening.

Here is the lineup for the winter issue:

Handiman's Guide to MOSFET "Switched Mode" Amplifiers: Part 1 - NA5N

HF Vertical Travel Antenna - Updated - AD5X

A Review of Short Antenna Design - W6QIF

Using an Oscilloscope and Load Resistor to Estimate RF Power - W5YR

SPaddle - A lightweight Vertical Paddle - AA1MY

KK5PY's Tene Tuner - N5ZE

How to Build the NorCal Doublet Antenna - KI6DS

And here is the lineup for the Spring Issue:

Handiman's Guide to MOSFET "Switched Mode" Amplifiers: Part 2 - NA5N

NJQRP Club Sniffer: A Tunable Multiband Field Strength Meter - N2CX & N2APB

Build the St. Louis Qucikie and Vest Pocket Vertical Antenna - NF0R

If your subscription ran out with the winter issue, you will be getting both the winter and spring issue, but we would appreciate your renewals. Please check your expiration date on the label. All of the articles are great, but the Paul Harden stuff is unbelievable. You gotta see these articles, as it is some of the best work he has ever done. 72, Doug

Date: Wed, 21 May 2003 16:39:12 -0400
From: "Tom" <kf4yyd@adelphia.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [151088] Re: SMD soldering nirvana????
Message-ID: <EIEBLEILGEEGMLHGH0AGMENGCFAA.kf4yyd@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dave,

I guess I'll keep my eyes out for a toaster (reflow) oven so that I can try this out sometime in the future. I have a couple of the surface mount DDS chips that have an ungodly pitch that will be used in the future when I get to order the NJQRP kit.

It looks like it could be quite a usefull little trick that could save a lot of headaches.

Tom kf4yyd

Date: Wed, 21 May 2003 16:48:09 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151089] Re: Dayton Hamfest Prizes
Message-ID: <00ad01c31fda\$4afe0980\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I wonder if that VX-1000 is going to lure Ken over to the Dark Side.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, May 21, 2003 2:31 PM
Subject: Dayton Hamfest Prizes

> Check out who won the top prize at the Dayton HamFest
>
> <http://www.hamvention.org/prizes.html>
>
> CONTRATS Ken...I still think you had my ticket
>
> 72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
> Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
> RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>
>
>
>

Date: Wed, 21 May 2003 17:45:29 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [151090] Re: Dayton Hamfest Prizes
Message-ID: <5.1.1.6.1.20030521174140.00b2a298@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:19 PM 5/21/2003 -0500, you wrote:

>Isn't it odd that over half the prizes went to persons in Ohio, I would
>think the odds are kind of strange. There is a conspiracy to be uncovered
>here somewhere. ;-}

Cecil,

That's because the locals go scrounging through the trash after hours,
scarfing up discarded tickets and Model 15 Teletypes.

You don't think we actually pay admission, do you? (Grin)

Dave, who spent 38 years in Ohio one weekend.

Dave Hinerman
WD8CIV@att.net

Date: Wed, 21 May 2003 17:48:35 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [151091] Re: SMD soldering nirvana????
Message-ID: <5.1.1.6.1.20030521174648.00b2a5d0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>I guess I'll keep my eyes out for a toaster (reflow) oven so that I can try
>this out sometime in the future. I have a couple of the surface mount DDS
>chips that have an ungodly pitch that will be used in the future when I get
>to order the NJQRP kit.
>
>It looks like it could be quite a usefull little trick that could save a lot
>of headaches.

Tom,

Headaches? Depends on how well ventilated the area is around the oven. (Grin)

Good luck, and let us know how it works out!

Dave

Dave Hinerman
WD8CIV@att.net

Date: Wed, 21 May 2003 22:27:24 GMT
From: psschwarz@kellnet.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151092] Re: Dayton Hamfest Prizes
Message-ID: <20030521222724.6903.qmail@mail.kellnet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, since the airlines never have any cheap flights out of Ohio so we Ohioans can get away from it all, at least we have something to stay for. ;-)

Patrick...KB8RTZ...

KD5NWA writes:

> Isn't it odd that over half the prizes went to persons in Ohio, I would
> thing the odds are kind of strange. There is a conspiracy to be uncovered
> here somewhere. ;-}
>
>
> At 01:31 PM 5/21/2003, w8diz wrote:
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>> Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
>> RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>
>
> Cecil
> KD5NWA

Date: Wed, 21 May 2003 18:32:12 -0400
From: tjmc <tjmc@erols.com>
To: njqrp@njqrp.org, qrp-l@lehigh.edu
Subject: [151093] Icom 703 first impressions
Message-ID: <3ECBFE6C.9000706@erols.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

5/14/03

Just playing with a new Icom 703.... (PDF manual is d/l'able from Icom Amercia site)

I like it!

It's bigger than the 817, just a bit smaller than the K2.

Battery draw @14v dc is 580 ma (1/3 volume with some signal). 605 ma with preamp on.....

The powersaving features include display backlight (hi,lo,off), buttons light (ho,lo,off), led lights (hi,lo), a sort of power saving sleep mode and the auto off.

This leads up to about 380 ma draw on rx for me... it was listed as 250 ma? min somewhere, but that's prob with the sleep mode on - in standby.

Anyway, not bad for the rig with this features.

Turner works just fine on my vertical and on some wire antennas. It seems to tune a bit over the 3:1 swr range and if it doesn't tune ,the tuner just turns off quickly. Speed of the turner is on par with the K2 and LDG tuners. The tuner has memories for the different bands, but I couldn't find the total number of memories it will retain.

The Setting for output power out is relative, not direct readout... it puts out (on my Oak Hill meter) from 100 mw (bottom of L) to 10w (on H).... 5w out is aprox 7 on the output scale (though power out does vary in same readout number slightly depending how far in the rotation you are to the next digit)

SSB band and CW reports have all been good on stock settings, so no change there yet.

There is plenty of audio and speaker quality is good.

RX is good, the rig has good ears.

The DSP for noise (adjustable noise reduction) works fine on SSB with the auto notch filter working great too. Sorry to say there is no DSP narrow filter for CW and for heavy CW ops, this radio will need a 500hz/250hz filter (read \$169 option).

CW is set for Off, Break-in (setable hang) and Full Bkin... in Full there is some relay chatter, not really loud, but it's there.

Results;

Likes:

Antenna tuner built in

keyer memory and contest counter

LARGER buttons/display for these fat fingers and getting old eyes

10 watts

Dislikes:

1/4 phone plug for the keyer (a jack on the front would be nice)

In full break-in, relay makes a little noise

No tight DSP filter for CW (rig needs 500 filter for real cw use)

All best

Tom aa2vk

5/17/03

I started getting into the power savers of the 703

Normal draw is about 580ma with preamp off 1/3 volume; settings at default and 14v supply.

For the display Back light:

From High to Low, 40 ma... from L to Off, 45 ma for a total of about 100 ma savings if you turn off the display lighting.

Button Lights:

From High to Low, 20 ma ... from L to off 30ma fo a total of about 50 ma savings.

So just from turning off the display and button lights you can save 150 ma!

Turn the LEDS from H to L and save another 40ma

Total drop about 200ma!!

As previous stated, I've had my down to 380ma or so I'm still trying to break that 300ma mark.

Will test the sleep mode soon.

all best

Tom aa2vk

End of QRP-L Digest 2927
